

# MediaWiki Mobile and Desktop

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## 1 Introduction

Originally developed in 2002, MediaWiki has ripened to become the software base of a leading encyclopedia. The highly optimized software offers more than 1.800 extensions for adding or modifying system behavior and it is widely used as knowledge management system.

A severe restriction of MediaWiki however is its architecture as a server-based software. Setting up a MediaWiki installation is a complicated task. Docker is a concept which allows to streamline deployment, but it is restricted to server-type environments. It is not common for an end-user desktop application to be deployed in a docker ecosystem, deployment in mobile environments is not possible.

WordPress has originally been in a similar situation. WordPress Desktop is an Electron-based attempt to at least migrate the user interface of WordPress, but it still relies on a server-side code portion.

## 2 Research Area

The goal of this thesis is to research architectures which allow a user friendly desktop-only or mobile-only installation of a MediaWiki installation. The goal is to allow working and editing with MediaWiki contents in scenarios where no network connection is possible.

The concept should allow to host various large extensions, such as Semantic Media Wiki, possibly with Latex, Cirrus search extensions and others. It should be more end user friendly than the traditional docker implementations or bundlings similar to XAMPP. The ultimate use case is a packaging which allows to deploy MediaWiki on a laptop or mobile as a complete stand-alone software application with the same ease as the installation of a typical desktop or mobile software package for end-users.